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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,516	05/16/2006	Kevin John Beaumont	039-212	8429
1009 KING & SCHIO	7590 02/04/200 CKLL PLLC	EXAMINER		
247 NORTH BROADWAY			BAINBRIDGE, ANDREW PHILIP	
LEXINGTON, KY 40507			ART UNIT	PAPER NUMBER
			3754	
			MAIL DATE	DELIVERY MODE
			02/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/579,516	BEAUMONT, KEVIN JOHN			
Office Action Summary	Examiner	Art Unit			
	ANDREW P. BAINBRIDGE	3754			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
	-· action is non-final.				
<i>,</i> —	/ <del></del>				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
		0 0.0.2.0.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-5,7,10 and 11</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-5,7,10 and 11</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) $\square$ objected to by the E	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/27/2006.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal Pa 6)  Other:	ite			

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### **DETAILED ACTION**

## Specification

1. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 10-11 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The description of a "pump with a smooth output" lacks sufficient detail to determine structurally what the phrase means in the claims, which is a critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Does the inventor mean that the output is a consistent value over time, or does the fluid output in a laminar flow?

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 5. Claims 1-3, 7 and 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by US 2003/0098069 (Sund et al.).
- 6. Sund in figures 1-11 discloses an apparatus for dispensing measured batches of liquid 500 with a pressurized reservoir tank 518 of fluid that is pressurized at a controlled pressure by nitrogen gas from a pressure valve 550 with a metering pump 511 that includes a valve 511 that is upstream from a digital flow meter 512 which is upstream to a liquid control valve 510 that leads to a dispenser 562, the whole system carefully controlled by a computer program dictated liquid delivery controller 514 which interacts with the system by means of valves 511, 550, 510 and pressure sensors 530a-c, the metering pump 511 providing "smooth output" of material.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sund.

- 10. Sund in figure 10 has all of the elements of claim 4 except a flow control valve that is disposed immediately upstream from the flow meter. Sund in a different embodiment figure 2 teaches a flow control valve 110 that is immediately upstream from a flow meter 112, both controlled by a computer controller 114. It would be obvious to one of ordinary skill in the art to adapt eh figure 10 embodiment of Sund with the figure 2 embodiment of Sund because they are both from the same patent application, and the figure 2 arrangement provides a way to stop or start flow that much quicker, in order to yield even more reliable consistent dispensation.
- 11. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sund as applied in claim 4 above, and further in view of US 2003/0056695 (Macklin et al.).
- 12. Sund as applied in claim 4 has all of the elements of claim 5 except for a pump that creates a pulsating output and has a pulsation damper directly downstream from the pulsating pump. Macklin in figure 1 teaches a peristaltic pump 14 that creates pulsations of fluid delivered with a pulsation damper 16 provided directly downstream from the pulsation pump. It would be obvious to one of ordinary skill in the art to adapt Macklin to Sund because Macklin provides a way to more reliably create a smooth output of fluid from the system.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW P. BAINBRIDGE whose telephone number is

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(571)270-3767. The examiner can normally be reached on Monday to Thursday, 9:30 AM to 8:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. P. B./ Examiner, Art Unit 3754 /Kevin P. Shaver/ Supervisory Patent Examiner, Art Unit 3754